

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: \_\_\_\_\_

Source: \_\_\_\_\_

Date Processed by STIC: \_\_\_\_\_

10/707,039  
JFWG  
09/15/2005

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/707,039

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4      Non-ASCII     The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
  
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for **each** skipped sequence:  
                               (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               (i)     SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                               (xi)  SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               This sequence is intentionally skipped  
  
                               Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                               <210> sequence id number  
                               <400> sequence id number  
                               000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                               Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
                               In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
  
- 11      Use of <220>     

:S.

<220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa     "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWO

## RAW SEQUENCE LISTING

DATE: 09/15/2005

PATENT APPLICATION: US/10/707,039

TIME: 11:16:18

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\J707039.raw

3 <110> APPLICANT: Seale, Jeffrey W.  
 4 Vordtriede, Paul B.  
 6 <120> TITLE OF INVENTION: Amino Acid Sequence Variant Alfalfa Antifungal Protein and  
 Its Use in  
 7 Plant Disease Control  
 9 <130> FILE REFERENCE: 38-21(15546)  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/707,039  
 C--> 11 <141> CURRENT FILING DATE: 2003-11-17  
 11 <160> NUMBER OF SEQ ID NOS: 4  
 13 <170> SOFTWARE: PatentIn version 3.1  
 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 135  
 17 <212> TYPE: DNA  
 18 <213> ORGANISM: Medicago sativa  
 20 <220> FEATURE:  
 21 <221> NAME/KEY: CDS  
 22 <222> LOCATION: (1)..(135)  
 23 <223> OTHER INFORMATION:  
 W--> 26 <400> 1  
 27 aga aca tgt gag aat ttg gca gat aaa tat agg gga cca tgc ttt agt 48  
 28 Arg Thr Cys Glu Asn Leu Ala Asp Lys Tyr Arg Gly Pro Cys Phe Ser  
 29 1 5 10 15  
 31 ggt tgt gac act cac tgc aca acc aaa gag aac gca gtt agt gga agg 96  
 32 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg  
 33 20 25 30  
 35 tgt agg gac gac ttc cgc tgc tgg tgt act aaa aga tgt 135  
 36 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys  
 37 35 40 45  
 40 <210> SEQ ID NO: 2  
 41 <211> LENGTH: 45  
 42 <212> TYPE: PRT  
 43 <213> ORGANISM: Medicago sativa  
 45 <400> SEQUENCE: 2  
 47 Arg Thr Cys Glu Asn Leu Ala Asp Lys Tyr Arg Gly Pro Cys Phe Ser  
 48 1 5 10 15  
 51 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg  
 52 20 25 30  
 55 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys  
 56 35 40 45  
 59 <210> SEQ ID NO: 3  
 60 <211> LENGTH: 135  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: Artificial Sequence  
 64 <220> FEATURE:

Does Not Comply  
 Corrected Diskette Needed

(pg-2)

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/707,039

DATE: 09/15/2005

TIME: 11:16:18

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\J707039.raw

65 <223> OTHER INFORMATION: AlfAFP1 D8R  
 67 <220> FEATURE:  
 68 <221> NAME/KEY: CDS  
 69 <222> LOCATION: (1)..(135)  
 70 <223> OTHER INFORMATION: AlfAFP1 D8R  
 73 <400> SEQUENCE: 3  
 74 aga aca tgt gag aat ttg gca aga aaa tat agg gga cca tgc ttt agt  
 75 Arg Thr Cys Glu Asn Leu Ala Arg Lys Tyr Arg Gly Pro Cys Phe Ser  
 76 1 5 10 15  
 78 ggt tgt gac act cac tgc aca acc aaa gag aac gca gtt agt gga agg  
 79 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg  
 80 20 25 30  
 82 tgt agg gac gac ttc cgc tgc tgg tgt act aaa aga tgt  
 83 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys  
 84 35 40 45  
 87 <210> SEQ ID NO: 4  
 88 <211> LENGTH: 45  
 89 <212> TYPE: PRT  
 90 <213> ORGANISM: Artificial Sequence  
 92 <220> FEATURE:  
 93 <223> OTHER INFORMATION: AlfAFP1 D8R  
 95 <400> SEQUENCE: 4  
 97 Arg Thr Cys Glu Asn Leu Ala Arg Lys Tyr Arg Gly Pro Cys Phe Ser  
 98 1 5 10 15  
 101 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg  
 102 20 25 30  
 105 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys  
 106 35 40 45

Invalid Response.  
 What is the source  
 of Genetic Material?

48 p/s see  
 Stem #  
 96 11 on Error  
 135 Summary  
 Sheet.

Same Error.

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/707,039

DATE: 09/15/2005

TIME: 11:16:19

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\J707039.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:26 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:23